

VOLUME 13, 1972

CONTENTS

Number 1 — issued March 1972

MOEBUS, K., Seasonal changes in antibacterial activity of North Sea water. 1

REYSSAC, J. et M. ROUX, Communautés phytoplanctoniques dans les eaux de Côte d'Ivoire. Groupes d'espèces associées. [Phytoplanktonic communities in Ivory Coast waters. Groups of associated species]. 14

KERAMBUN, P., Dimorphisme sexuel biochimique de *Sphaeroma hookeri* (Isopoda: Flabellifera) relatif à sa teneur en carbone, azote et hydrogène. [Biochemical sexual dimorphism of *Sphaeroma hookeri* (Isopoda: Flabellifera) in relation to its carbon, nitrogen and hydrogen content]. 34

BLOOM, S. A., J. L. SIMON and V. D. HUNTER, Animal-sediment relations and community analysis of a Florida estuary. 43

WADE, B. A., A description of a highly diverse soft-bottom community in Kingston Harbour, Jamaica. 57

HEMPFL, G. and H. WEIKERT, The neuston of the subtropical and boreal North-eastern Atlantic Ocean. A review. 70

Number 2 — issued March 1972

OGURA, N., Rate and extent of decomposition of dissolved organic matter in surface sea-water. 89

KEČKEŠ, S., S. W. FOWLER and L. F. SMALL, Flux of different forms of ¹⁰⁶Ru through a marine zooplankton. 94

LOYA, Y., Community structure and species diversity of hermatypic corals at Eilat, Red Sea. 100

CZECZUGA, B., Investigations of carotenoids in some fauna of the Adriatic Sea. II. *Anemonia sulcata* and *Actinia equina* (Coelenterata: Anthozoa). 124

HERBERTS, C., Contribution à l'étude écologique de quelques zoanthaires tempérés et tropicaux. [Contribution to the ecological study of some temperate and tropical zoanthids]. 127

ZAFIRIOU, O., K. J. WHITTLE and M. BLUMER, Response of *Asterias vulgaris* to bivalves and bivalve tissue extracts. 137

JARVIS, J. H. and P. E. KING, Reproduction and development in the pycnogonid *Pycnogonum littorale*. 146

MENZIES, R. J. and R. Y. GEORGE, Temperature effects on behavior and survival of marine invertebrates exposed to variations in hydrostatic pressure. 155

OWEN, J. M., J. W. ADRON, J. R. SARGENT and C. B. COWEY, Studies on the nutrition of marine flatfish. The effect of dietary fatty acids on the tissue fatty-acids of the plaice *Pleuronectes platessa*. 160

STORCH, V. and U. WELSCH, The ultrastructure of epidermal mucous cells in marine invertebrates (Nemertini, Polychaeta, Prosobranchia, Opisthobranchia). 167

WARD, A. R., Two new species of *Xyala* (Nematoda, Monhysteroidae) from sublittoral sediments in Liverpool Bay. 176

Number 3 — issued April 1972

RIEGL, R. J. and R. MACHAN, Hydrodynamic patterns in lotic intertidal sands and their bioclimatological implications. 179

RIEGL, R. J., N. HUANG and R. MACHAN, The subtidal pump: a mechanism of interstitial water exchange by wave action. 210

GORDON, M. S., Comparative studies on the metabolism of shallow-water and deep-sea marine fishes. I. White-muscle metabolism in shallow-water fishes. 222

ZANDER, C. D., Beziehungen zwischen Körperbau und Lebensweise bei Blenniidae (Pisces) aus dem Roten Meer. I. Äußere Morphologie. [Relations between morphology and way of life in Blenniidae (Pisces) from the Red Sea. I. External morphology]. 238

EMIG, C. C., Reproduction asexuée chez *Phoronis psammophila*. [Asexual reproduction in *Phoronis psammophila*]. 247

RÖTGER, R., H. ASTHEIMER, M. SPINDLER und J. STEINBORN, Ökologie von *Asterocheres lilljeborgi*, eines auf *Henricia sanguinolenta* parasitisch lebenden Copepoden. [Ecology of *Asterocheres lilljeborgi*, a parasitic copepod living on *Henricia sanguinolenta*]. 259

VOLUME 13, 1972 CONTENTS (continued)

Number 4 — issued April 1972

BEHRISCH, H. W., Molecular mechanisms of adaptation to low temperature in marine poikilotherms. Some regulatory properties of dehydrogenases from two arctic species. 267

SHICK, J. M., Temperature sensitivity of oxygen consumption of latitudinally separated *Urosalpinx cinerea* (Prosobranchia: Muricidae) populations 276

SCHÖNE, H. K., Experimentelle Untersuchungen zur Ökologie der marin Kieselalge *Thalassiosira rotula*. I. Temperatur und Licht. [Experimental investigations on the ecology of the marine diatom *Thalassiosira rotula*. I. Temperature and light]. 284

EPIFANIO, C. E., Effects of dieldrin-contaminated food on the development of *Leptodius floridanus* larvae. 292

MUSCATINE, L., R. R. POOL and E. CERNICHIARI, Some factors influencing selective release of soluble organic material by zooxanthellae from reef corals. 298

RITZ, D. A., Factors affecting the distribution of rock-lobster larvae (*Panulirus longipes cygnus*) with reference to variability of plankton-net catches. 309

RIZNYK, R. Z. and H. K. PHINNEY, The distribution of intertidal phytopsammion in an Oregon Estuary. 318

WULFF, F., Experimental studies on physiological and behavioural response mechanisms of *Nitocra spinipes* (Crustacea: Harpacticoidae) from brackish-water rockpools. 325

PANDIAN, T. J. and S. KATRE, Effect of hatching time on larval mortality and survival of the prawn *Macrobrachium idae*. 330

BERLAND, B. R., D. J. BONIN, P. L. LABORDE et S. Y. MAESTRINI, Variations de quelques facteurs estimatifs de la biomasse, et en particulier de l'ATP, chez plusieurs algues marines planctoniques. [Variations of some factors for estimating the biomass, and in particular ATP, in several marine planktonic algae]. 338

MOEBUS, K., The influence of storage on antibacterial activity of sea water. I. Experiments with sea water stored at 18 °C. 346

